

Cycle	i=0	i=1	i=2	i=3	i=4	i=5
0	L1					
1						
2	М	L1				
3	L2					
4		М	L1			
5	A	L2				
6			М	L1		
7		A	L2			
8				М	L1	
9	S		A	L2		
10					М	L1
11		S		A	L2	
12						М
13			S		A	L2
14						
15				S		A
16						
17					S	
18						
19						S

Fig.4

120R

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r 15 r 14 r 13 r 12 r 11 r 10 r 9 r 8 r 7 r6 r 5 r 4 r3 r 2 r 1 r 0

OFFSET

Fig.5

								E	5/1	0			
	1/3								S3►r10 S5►r12 S6►r13	S7► r13	s7► r13	s8► r13	s8 ► r13
	21						84 ► 112	S5 ► r12	S5► r12				
Iteration 1	11					S2 ► r10	S2 ► r10 S4 ► r12	s3 ► r10 s5 ► r12	s3 ► r10				
Iter	04			80 ► r9	80 ► 19								
	Instruction			1d v0, (r1 ++) s0 r9		mul v1, v0, r3 s1 ► r9	s3►111 s5►113 s6►114 ld v2, (12++)		S7► r14 add v3, v1, v2				st v3. (14++)
	K3						s6 ► r14	S7► r14	S7► r14	s8►r14	s8►r14		
	7.1				S4 ► r13	s5 ► r13	s5► r13						
Iteration 0	11			S2►111	S2 = r11 S4 = r13	s3►r11 s5►r13	s3► r11						
Ite	04	S0► r10	s0►r10	S1 ► 110									
	Instruction	ld v0, (r1++)		mul v1, v0, r3 s1 - r10 s2 - r11	ld v2, (r2++)		add v3, v1, v2				st v3, (14++)		
	Offset	10	10	6	9	8	8	7	7	9	9	5	5
	Cycle	0	-	2	3	4	5	9	7	8	9	10	11

Translation:

- Id v0, (r1++) --> Id s0, (r1++) mul v1, v0, r3 --> mul s2, s1, r3
- $1d v2, (r2++) \longrightarrow 1d s4, (r2++)$ add $v3, v1, v2 \longrightarrow add s6, s3, s5$ 4
 - st v3, (14++) st s8, (14++)

Fig.6(A)

COMMUNICATING INSTRUCTION RESULTS IN. . . Nigel Peter Topham Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No 0808.65202 Sheet 6 cf 10 (312) 360 0080

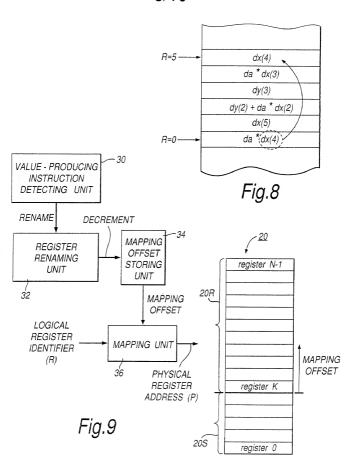
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								6/	11	J							
	1/3												s6 ► r11	S7► r11	S7+ 111	88►111	88 ► 111
Iteration 3	1/2										s4►r10	$s5 \triangleright r10$	s5►r10				
	17									52 ▶ 18	s2 ► r8	83 ► r8	s3►r8				
Iter	01							S0►r7	s0 ► r7	S1 - 17							
	Instruction							ld v0, (r1 ++)		mul v1, v0, r3 s1 ► r7	ld v2, (r2++)		S7► r12 add v3, v1, v2				st v3, (r4++)
	V3										S5 r11 86 r12	S7 - r12	S7► r12	s8►r12	s8►r12		
	175								S4 - 111	S5►111	S5▼111						
Haration 9								s2►r9	s2► r9	83 ▶ 19	83 ▶ 19						
Itar	9					s0 ► r8	80 ► r8	1									
	Cycle Offset Instruction					10 v0, (r1++) 80 + 18		mul v1, v0, r3 s1 ► r8	Id v2. (12++)		Cu tu su pho	aug vo, v., v.			st v3, (r4++)		
	Offset	10	10	9	6	8	8	7	7	. 4	, (4	2 12	2 2	4	4	62	3
	Cycle	0	1	2	3	4	22	9	7	. α	0	5	2 =	12	55	14	15

Fig.6(B

Cycle	i=0	j=1	i=2	i=3	i=4	i=5
0	L1					
1						
2	М	L1				
3	L2					
4		М	L1			
5	Α	L2				
6			М	L1		
7		A	L2			
8				M (1)	L1 (0)	
9	S		A (3)	L2 (2)		
10					M (5)	L1 (4)
11		S		A (7)	L2 (6)	
12						M (9)
13			S		A (11)	L2 (10)
14						
15				S		A (15)
16						
17					S	
18						
19						S

Fig.7



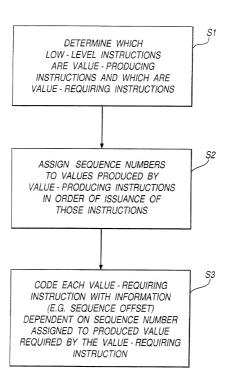


Fig.10



Fig.11

Fig.12

